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7. (original) The catheter of claim 5 wherein the pressure sensors are located on the shaft between adjacent band electrodes.

8. (original) The catheter of claim 2 wherein the electrode system comprises a plurality of band electrodes arranged in a linear array and the at least one pressure sensor is located on the shaft near the longitudinal center of the array.

9. (previously canceled)

10. (previously canceled)

11. (canceled)

12. (canceled)

13. (currently amended) The catheter of ~~claim 1~~ ~~claim 2~~ wherein the electrode system comprises a plurality of band electrodes, a plurality of which have a flow sensor associated therewith.

14. (original) The catheter of claim 13 wherein the flow sensors are located on the band electrodes.

15. (original) The catheter of claim 13 wherein the flow sensors are located on the shaft between adjacent band electrodes.

16. (currently amended) The catheter of ~~claim 1~~ ~~claim 2~~ wherein the electrode system comprises a plurality of band electrodes arranged in a linear array and the at least one flow sensor is located on the shaft near the longitudinal center of the array.

17. (previously presented) The catheter of claim 1 further comprising at least one temperature sensor associated with the distal segment and positioned within the tissue-contacting area, the temperature sensor adapted to provide temperature data indicative of the temperature at the interface between the temperature sensor and the tissue.